

# भारत का राजपत्र

## The Gazette of India

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No. 30] NEW DELHI, SATURDAY, JULY 26, 1980 (SRAVANA 4, 1902)

इस माग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate Filing is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### [PART III—SECTION 2]

#### पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस [Notifications and Notices issued by the Patent Office relating to Patents and Designs]

##### THE PATENT OFFICE

##### PATENTS AND DESIGNS

Calcutta, the 26th July, 1980

##### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under Section 135 of the Act.

19th June 1980

711/Cal/80. Michelin & Cie (Compagnie Generale des Etablissements Michelin). A process for the manufacture of tires by molding and tires obtained by this process.

712/Cal/80. Philadelphia Suburban Corporation. Fire-fighting concentrates. (January 10, 1980).

20th June 1980

713/Cal/80. Midrex Corporation. Method and apparatus for producing molten iron from iron oxide with coal and oxygen.

714/Cal/80. Sumitomo Metal Industries, Ltd. Production of carbon steel and low-alloy steel with bottom blowing basic oxygen furnace.

715/Cal/80. Drayo Corporation. Poke hole closure.

716/Cal/80. Burroughs Corporation. Display panel having memory.

21st June 1980

717/Cal/80. DRG (UK) Limited. Vascular clamp. (June 21, 1979).

718/Cal/80. Akzo nb. A method of producing melt-spun crystalline filaments which are stretched to orientate the molecules.

719/Cal/80. Schlumberger Limited. Cryostats for photon detectors. (June 21, 1979).

720/Cal/80. Texasgulf Canada Ltd. A process for the recovery of arsenic As a zinc arsenate and its utilization in the purification of zinc plant electrolytes. (December 19, 1979).

23rd June 1980

721/Cal/80. R. C. N. Whitehouse. A rotary fluid machine, such as an engine, a pump, a compressor, a brake. (June 22, 1979, July 13, 1979, March 7, 1980).

722/Cal/80. R. C. N. Whitehouse. A rotary fluid machine, such as an engine, a pump, a compressor, a brake. (June 22, 1979, July 13, 1979).

723/Cal/80. R. C. N. Whitehouse. A rotary fluid machine, such as an engine, a pump, a compressor, a brake. (June 22, 1979, July 13, 1979, March 7, 1980).

24th June 1980

724/Cal/80. D. D. A. Piesold. Improvements in decants of tailings dams. (July 4, 1979).

725/Cal/80. Magyar Aluminiumipart Troszt. Process for simultaneous recovering of vanadium, molybdenum and gallium from alumina factory aluminate liquors.

726/Cal/80. Kabel Und Metallwerke Gutehoffnungshutte Aktiengesellschaft. Water resistant high voltage insulation for electric cables.

##### APPLICATIONS FOR PATENTS AT THE (DELHI BRANCH)

12th May 1980

343/DFL/80. Council of Scientific & Industrial Research, "A process for the preparation of new red tri-

azinylazonaphthol disperse dyes for polyester fibres." [Divisional date January 6, 1978].

544/DEL/80. The General Electric Company Limited, "Fault Identification in Electric Power Transmission Systems." (May 16, 1979).

345/DEL/80. FMC Corporation, "Crystalline, Insecticidal Pyrethroid Enantiomer Pair and Process for Preparation."

13th May 1980

346/DEL/80. Alsthom-Atlantique, "A Sludge Decanter and Thickener."

347/DEL/80. Pont-A-Mousson S.A., "Method and Installation for low pressure casting of metal parts in a thin-walled sand impression."

348/DEL/80. Imperial Chemical Industries Limited, "Treatment of Wastewater." (May 23, 1979).

14th May 1980.

349/DEL/80. Mrs. S. Kapoor, "Compass for drawing circles."

350/DEL/80. Bharat Heavy Electricals Ltd., "Elastic Fluid Reaction Turbine."

351/DEL/80. Miles Laboratories, INC., "Apoglucose Oxidase Preparation."

352/DEL/80. Societe Nationale Des Poudres Et Explosifs, "New Process for the manufacture of Nitrocellulose-based Propellant Powders without prior Drying."

15th May 1980

353/DEL/80. Ravinder Singh, "An Air Cooler."

354/DEL/80. Ravinder Singh, "An Air Cooler."

355/DEL/80. Ravinder Singh, "An Air Cooler."

356/DEL/80. Cimco International, "A Rolling Stock."

357/DEL/80. Cimco International, "A Rolling Stock and a Locking Release Device used therein."

358/INT/80 Schering Aktiengesellschaft, "Insecticidally Active Salts of Thiazolylideneoxo-Propionitriles and their manufacture and use."

16th May 1980

359/DEL/80. Smithkline Corporation, "Process for preparing 3-Allyl-7-8-Dihydroxy-6-Halo-1-(4-Hydroxy-phenyl)-2, 3, 4, 5-Tetrahydro-1 H-3-Benzazepine Derivatives."

360/DEL/80. Council of Scientific & Industrial Research, "Process for the Preparation of 2-Hydroxytryptamine Monohydrochloride." [Divisional date July 13, 1978].

361/DEL/80. Council of Scientific & Industrial Research, "Process for the Preparation of Dimethyl-4-Ethyl-4-Formyl Pimelate." [Divisional date July 13, 1978].

17th May 1980

362/DEL/80. Paul Engineers, "Arc Welding Transformer."

APPLICATIONS FOR PATENTS FILED AT THE  
(MADRAS BRANCH)

16th June 1980

110/Mas/80. Dr. J. Thaikattil. A table lamp.

111/Mas/80. G. Loganathan. Auto Cigarette Case.

20th June 1980

112/Mas/80. Lucas Industries Ltd., Disc brake and friction pad assembly therefor. (June 26, 1979)

21st June, 1980

113/Mas/80. A. P. Aboobacker. Healthy beedi without tobacco.

ALTERATION OF DATE

147862 } Ante dated 6th January, 1977.  
756/Cal/1978 ]

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8 Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 159E.

147860.

Int. Cl.-B611 19/00, 19/02, E01b 7/00.

RAILWAY POINT SWITCHING MACHINE.

*Applicant* : WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, OF 3, JOHN STREET, LONDON WC1N 2ES, ENGLAND.

*Inventor* : COLIN MICHAEL BOWLES.

Application No. 41/Del/78 filed January 16, 1978.

Convention date February 3, 1977/(04375/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

31 Claims.

A railway point switching machine comprising a throw bar movable between extreme positions and connected to the movable part of the rails making up said points, a double acting actuator arranged to move the throw bar and opposite sides of which are connected by two conduits with a control valve which, in turn communicates with a pressure fluid inlet pipe and a pressure fluid outlet pipe which can be selectively connected, by means of said valve, to the two conduits to drive the throw bar in opposite directions, and bypass valve means connected in combination with the control valve to selectively interconnect the conduits communicating with the double-acting actuator such that when the conduits are interconnected by means of the bypass valve means fluid may be exchanged between opposite sides of the actuator to allow said actuator and throw bar to follow movement of the movable parts of the points rails.

Comp. Specn. 40 Pages.

Drg. 4 Sheets.

CLASS 147 B & E.

147861.

Int. Cl.-G11b 17/00.

A STABILIZING BACKING PLATE FOR USE IN RECORDING AND/OR REPRODUCING APPARATUS AND METHOD OF PRODUCING SAME.

*Applicant* : INTERNATIONAL BUSINESS MACHINES CORPORATION, OF ARMONK, NEW YORK 10504, UNITED STATES OF AMERICA.

*Inventors* : ALIEN RONALD COX, MICHAEL ROBERT HATCHETT AND LEONARD JOHN RIGBEY.

Application No. 392/Del/77 filed November 16, 1977.

Convention date December 15, 1976/(52382/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

16 Claims.

A stabilizing backing plate for use in recording and/or reproducing apparatus of the type described, having a bearing surface for supporting in operation a rotating disk-shaped flexible recording medium, the surface being provided with a plurality of spaced depressions distributed thereover in a predetermined pattern so that air entrapped in said depressions between the plate and said medium when stationary enhances start-up of rotation of said medium over said plate.

Comp. Specn. 11 Pages.

Drg. 1 Sheet.

CLASS 32F<sub>2</sub>a & F<sub>2</sub>c & 40B.

Int. Cl.-C07c 85/02, C07d 51/62, B01j 11/00.

IMPROVEMENT IN OR RELATING TO A PROCESS FOR AMINATING AN ALIPHATIC ALKANE DERIVATIVE.

*Applicant* : UNION CARBIDE CORPORATION, AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

*Inventor* : DONALD CHARLES BEST.

Application No. 756/Cal/78 filed July 7, 1978.

Division of Application No. 13/Cal/77 filed January 6, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims.

In the process for aminating an aliphatic alkane derivative such as herein described with ammonia in the presence of a solid catalyst such as herein described, the improvement comprising reacting under amination conditions such as herein described said alkane charge with ammonia in the presence of hydrogen and a nickel-rhenium catalyst comprising rhenium and nickel impregnated on a support material selected from the group consisting of aluminas, silicas, silica-aluminas, kieselguhrs or diatomaceous earths and silica-titanias, wherein said catalyst has a total nickel and rhenium metal content of 3-30% by weight of the support material and the atom ratio of the nickel to the rhenium present is in the range from 2:1 to 30:1.

Comp. Specn. 38 Pages.

Drg. 1 Sheet.

CLASS 32A.

147863.

Int. Cl.-C09b 43/00, 45/00, 55/00.

A PROCESS FOR PREPARING AN AMINO-ACID DYESTUFF SALT.

*Applicant* : WILLIAMS (HOUNSLOW) LIMITED, OF GREVILLE HOUSE, HIBERNIA ROAD, HUNSLOW, MIDDLESEX, TW 3 3RX, ENGLAND.

*Inventors* : KEITH NORMAN PASKINS, DUNCAN CHARLES REDMAN AND IAN DAVID TURNER.

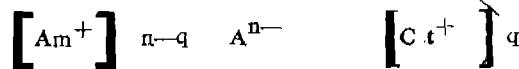
Application No. 425/Del/77 filed November 30, 1977.

Convention date December 9, 1976/(51454/76) U.K.

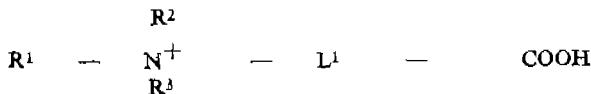
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

14 Claims.

A process for preparing an amino-acid dyestuff following general formula (1) :—



wherein  $\text{Am}^+$  is an amino-acid portion of the following formula (2).



in which  $\text{R}^1$ ,  $\text{R}^2$  and  $\text{R}^3$  are each, independently of one another, a hydrogen atom or a linear, branched or cyclic alkyl, alkoxyalkyl, alkylaminoalkyl, alkylamidoalkyl, aryl, a karyl or aralkyl, one or each of  $\text{R}^2$  and  $\text{R}^3$  is a group of the formula



$\text{L}^1$  and  $\text{L}^2$  are each, independently of one another, a group of the formula :—



wherein  $\text{R}^4$  and  $\text{R}^5$  are each, independently of one another a hydrogen atom, an alkyl group, an aryl group or an amino group and  $x$  is an integer of from 1-10 inclusive,  $\text{A}^{\text{n}-}$  is an anionic dyestuff portion having an  $n$ -fold negative charge,  $\text{Cat}^+$  is a cationic dyestuff radical or a proton  $n$  is 1, 2 or 3,  $q$  is 0, 1, 2, or 3 and is less than  $n$ , and when  $q$  is greater than 1, each of the cations may be the same or different which amino-acid dyestuff salt has a solubility of at least 5% W/V in at least two organic solvents selected from the group consisting of oxygenated halogenated and amido organic solvents, which comprises admixing an anionic dyestuff such as herein described including a said anionic dyestuff portion with an amino-acid including a said amino-acid portion of the formula (2) and, when  $q$  is 1, 2 or 3, admixing the said anionic dyestuff with the said amino-acid and with a compound capable of providing a said cationic radical, such as herein described, or a said proton thereby to effect mutual reaction with the said amino-acid and (when  $q$  is 1, 2 or 3) also with the said compound capable of providing a cationic radical and thereby produce the said amino-acid dyestuff salt of the formula (1).

Comp. Specn. 33 Pages.

Drg. 1 Sheet.

CLASS 47C.

147864.

Int. Cl.-C10b 33/04.

DEVICE FOR LOOSENING AND/OR BREAKING UP OF COKE IN A COKE OVEN CHAMBER.

*Applicant* : DIDIER ENGINEERING GMBH., 4300 ESSEN, ALFREDSTR. 28, WFST GERMANY.

*Inventors* : HEINZ-HUNTHNER GWEWE, HORST SEE-BERG, HORST FACH AND GRIEDRICH ISERMANN.

Application No. 985/Cal/77 filed June 30, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

33 Claims.

Device for loosening and/or breaking up coke in a coke oven particularly shaped coke in the oven chamber of an inclined-chamber coke oven, in order to make possible and/or promote the free discharge of the shaped coke from the oven chamber or scrape off coke adhering to the oven floor, characterized in that a stoking bar on a runway carrier, occasioned by the shape of said stoking bar and/or the runway carrier and the relative movement of the stoking bar on the runway carrier is guided such a way that said stoker bar in its forward movement along a predetermined, if necessary, curved path of motion, circumventing disturbing or obstructing profiles, especially the profile of the coke-quenching car, moves into a discharge gate of the coke oven chamber even with only partly opened chamber door and touches the oven floor with a front end clearing head, said clearing head during further movement sliding on the oven floor takes over the guidance of the stoker and that the stoker in

motion moves along a path corresponding to its forward motion.

Comp. Specn. 21 Pages. Drg. 7 Sheets.  
CLASS 40F & 141D. 147865.  
Int. Cl.-C22b 7/00.

## RECOVERY OF METAL VALUES.

Applicant : CRUCIBLE S.A., OF 14 RUE ALDRINGEN, LUXEMBOURG.

Inventors : RAYMOND JOHN DAVIDSON AND DAVID DUNCANSON.

Application No. 995/Cal/77 filed July 1, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A method of recovering metal values selected from gold, silver, copper and nickel from a support having one or more of these values adsorbed thereon in the form of an alkaline earth metal ionic complex, the metal value forming part of the anionic portion thereof, including the steps of contacting the support with a solution selected from the group of an alkali metal cyanide solution, an alkali metal hydroxide solution and a mixture thereof, followed by desorbing the metal values from the support with water having a low concentration of metal cations.

Comp. Specn. 15 Pages. Drg. 3 Sheets.  
CLASS 130-L. 147866.  
Int. Cl.-C22b 1/00, 7/00.

## A HYDROMETALLURGICAL PROCESS FOR THE RECOVERY OF VALUABLE METAL CONTENT FROM THE SOLUBLE SILICATE-BEARING MATERIALS.

Applicant : OUTOKUMPU OY, OF TOOLONKATU 4, SF-00100 HELSINKI 10, FINLAND.

Inventors : SIGMUND PEDER FUGLEBERG AND JAAKKO TEIJO ILMARI POIJARVI.

Application No. 1446/Cal/77 filed September 25, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A hydrometallurgical process for the recovery of valuable metal content from the soluble silicate-bearing material such as herein defined comprises leaching the silicate-bearing material at an elevated temperature with an aqueous solution of a mineral acid and by precipitating silicic acid during the same stage in an easily settling and filtering form, the solid material being finally separated from the valuable-metal-bearing solution, characterized in that the silicate-bearing material is added only at such a rate that its concentration calculated as  $\text{SiO}_2$  corresponds to the simultaneously precipitating silicic acid quantity.

Comp. Specn. 10 Pages. Drg. 1 Sheet.  
CLASS 128G. 147867.  
Int. Cl.-A61b 17/42.

## CONTRACEPTIVE IN THE FORM OF AN INTRAUTERINE DEVICE.

Applicant : FARMATIS S.R.L., OF CORSO EUROPA 5, MOLAN, ITALY.

Inventor : MARIA LUISA DEL CONTE.

Application No. 333/Cal/78 filed March 28, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A contraceptive intrauterine device which is symmetrical on both sides of its longitudinal axis and comprising on one side of said axis :— (1) a base consisting of a small base arc which connects to a straight ascending line inclined at an angle to said base and wherein said line is connected at its topmost extremity to a top portion which is in the form of a half circle disposed in a direction opposite to that of said base

arc; (2) said half circle continuing in the form of an inverted arc which is connected to still another arc to afford the overall shape of an undulating line which terminates at the upper longitudinal axis of said device; and (3) the straight ascending line also includes a straight branch portion which branches off in an ascending direction toward the longitudinal axis and which, before intersecting said axis, provides a protuberance which occupies the entire cross-section of said portion; including (4) a descending thread connected to the straight branch portion at about the central part of said device between its protuberances, said thread being passed through a hole in the center of said lower base of said device.

Comp. Specn. 8 Pages. Drg. 1 Sheet.  
CLASS 32A. 147868.  
Int. Cl.-C09b 29/00.

## A PROCESS FOR THE PREPARATION OF NEW YELLOW TO RED AZO-N-SUBSTITUTED-6-SUBSTITUTED AMINOPYRIDONE DISPERSE DYES FOR SYNTHETIC FIBRES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA.

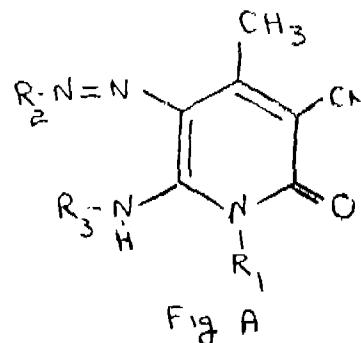
Inventors : NAGARAJ RAMANUJAYANGAR, ASHOK DATTATRAYA DESHPANDE AND BAL DATTATRAYA TILAK.

Application No. 59/Del/78 filed January 21, 1978.

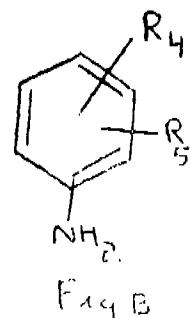
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

2 Claims.

A process for the preparation of yellow to red azo-N-substituted-6-substituted amino-pyridone disperse dyes for synthetic fibres of general formula of Fig. A.



comprising coupling of diazotized aromatic amine of formula of Fig. B.



with corresponding 3-cyano-N-substituted-6-substituted amino-pyrid-2-one at 0 to 10°C in aqueous acidic solution and isolating the precipitated dyes by filtration, wherein R<sub>1</sub> is methyl, ethyl, cyclohexyl or phenyl group, R<sub>2</sub> is phenyl, 2-chloro-4-nitrophenyl, 4-phenylazophenyl, 2-methylphenyl, 2-methoxyphenyl, 4-nitrophenyl, 2-chlorophenyl, 2, 4-dinitro-6-bromophenyl-2-nitrophenyl, 2-methyl-3-chlorophenyl, 2, 5-dichlorophenyl or 2-nitro-4-methoxyphenyl radicals, R<sub>3</sub> is phenyl, 2-methyl phenyl, 2-hydroxyethyl, 2-cyanoethyl, or cyclohexyl radicals, R<sub>4</sub> and R<sub>5</sub> are one or two hydrogen atoms or other

substituents such as methyl, methyl phenyl, ethyl, hydroxyethyl, nitro, bromo, cyanoethyl, cyclohexyl or phenyl radicals.

Comp. Specn. 10 Pages.

Drg. 1 Sheet.

CLASS 195D.

147869.

Int. Cl.-F16k 1/20.

IMPROVEMENTS IN AND RELATING TO PRESSURE EQUALIZING VALVES.

Applicant : S. A. DES ANCIENS ETABLISSEMENTS PAUL WURTH, OF LUXEMBOURG, OF 32, RUE D'ALSACE, LUXEMBOURG, GRAND DUCHY OF LUXEMBOURG.

Inventors : PIERRE MAILLET AND MICHEL KIRCHEN.

Application No. 929/Cal/77 filed June 21, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A pressure equalizing valve for shaft furnacecharging installation, comprising a valve housing, a movable flap member actuated by a pivoting arm and provided with a sealing surface designed to interact with a valve seating consisting of an annular element secured between two clamps from which it can be released by a translatory movement perpendicular to the longitudinal axis of the housing, without dismantling any other elements, the said housing being provided with a lateral aperture of which the diameter is at least equal to that of the flap, the connection between said flap member and the pivoting arm, consisting of an articulation permitting angular adjustment of the flap member with respect to said pivoting arm.

Comp. Specn. 11 Pages. Drg. 4 Sheets.

CLASS 168B & C & 186E. 147870.

Int. Cl.-G01r 13/00.

A DISPLAY SYSTEM TO DEPICT IN MOTION GRAPhICS.

Applicant : RANDOM ELECTRONICS INTERNATIONAL PTY. LTD., OF 25 MYRILE STREET, CROWS NEST, NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA.

Inventors : JOHN ROSS AND AMEDEO FILIBERTO SALA-SPINI.

Application No. 40/Cal/77 filed January 12, 1977.

Convention date January 13, 1976/(PC4507/76) AUSTRALIA.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A display system to depict in motion graphics made up of elements arranged in dot matrix form by creating a series of stationary images in successive display state periods comprising :

(1) Means supporting an array of picture element sources, each picture element source having control means for causing it to display a visible signal on receipt of an electrical signal, the picture element sources being arranged over the area of the array on a matrix of rows and columns corresponding to the said dot matrix, in a manner such that every row being a group of cells of the matrix arranged parallel to the direction of motion, contains picture element sources spaced apart throughout its length and such that every column, being a group of cells of the matrix arranged orthogonally to the direction of motion, has between zero and  $n$  picture element sources where  $n$  is equal to the number of rows in the matrix.

(2) Means for providing and transmitting said electrical signals to said control means, the signals being provided in sequential groups, each group being in respect of a display

state period for the array, each signal in a group being transmitted to each said control means being 395 represent an element of the dot matrix represented by a momentarily stationary image associated with this state period and that element corresponding in position to a picture element source to which said control means is connected, the sequence of said groups of signals being such that in the next display state period an encoded signal will cause a given picture element source to display that element of the dot matrix in the same row as the one just displayed and adjacent to it in the direction opposite to that of the motion of the graphic, the number of picture element sources in the array being significantly lower than the number of elements in the said dot matrix such that if, while displaying a graphic having all the cells of its dot matrix occupied, a signal display state period were sustained, then the momentarily stationary image would appear incomplete and unrecognizable, the sum of the durations of the display state periods necessary to display a signal representing an element of the graphic in dot matrix form at a picture element source in a given row of the array and to advance that signal to the next light in the same row and in the direction of motion not exceeding 250 milliseconds.

Comp. Specn. 47 Pages.

Drg. 6 Sheets.

CLASS 40F & 47C.

147871.

Int. Cl.-C10b 9/00, B01 j 1/00.

AN IMPROVED APPARATUS FOR TESTING THE READINESS OF HEAT-TREATED COAL FOR MOULDING.

Applicant : GOSUDARSTVENNY VSESOJUZNY INSTITUT PO PROEKTIROVANIU PREDPRIYATY KOXOKHIMICHESKOI PROMYSHLENNOSTI "GIPROKOK", ULITSA SUMSKAYA, 660, KHARKOV, USSR AND UKRAINSKY NAUCHNO-ISLEDOVATELSKY UGLEKHIMICHESKY INSTITUT, ULITSA VESNINA 7, KHARKOV, USSR.

Inventors : DANIL DANILOVICH MATSKEVICH, NINA EPHIMOVNA IVASHKOVA AND VIKTOR VASILIEVICH GAVRIKOV.

Application No. 1141/Cal/77 filed July 25, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

An improved apparatus for testing the readiness of heat treated coal for moulding by assessing in terms of time-span between the moment of exerting pressure on a sample of heated coal and the beginning of its swelling, comprising :

a receptacle for accommodating a coal samples taken from a stream of coal, said receptacle being a sleeve open at both ends fixed vertically on a bracket fitted to a vertical shaft provided with a drive for rotation, and a plunger adapted to move within the receptacle;

a part of the said shaft carrying the bracket with the receptacle and the plunger being placed inside a closed casing having on its top a coal feed pipe positioned over the path of rotation of the receptacle and an inclined discharge pipe at the bottom for removal of coal from the casing;

a means for driving the said plunger within the receptacle, the means comprising four guide members positioned inside the casing along the path of rotation of the receptacle of which,

a first guide member positioned horizontally at a level with the top face of the receptacle to close its top opening during a portion of said path of rotation,

a second guide member positioned under the first guide member and having a profile with an ascending and horizontal parts arranged on series for interaction with the lower end of the plunger during its rotation with the receptacle, thereby compressing the coal sample between the plunger and the first guide member, the said second guide member being connected through a lever system with a weight urging the second guide member towards the first guide member, and with a means for indicating the beginning of displacement of the plunger with the second guide member caused by the coal-sample swelling within the receptacle,

guide member having a further ascending profile and in series with the second guide member for further aid movement of the plunger within the receptacle to remove the coal sample therefrom, and a fourth guide member in series with the second guide member and having a descending profile for interaction with the plunger to move it downward to its lowermost position;

means for stopping the said drive when said receptacle is brought to a position preceding the point of intersection of its path of rotation and the stream of coal, and to a position on the horizontal profile of the second guide member, and a means for actuating said drive as the coal sample begins swelling.

Comp. Specn. 15 Pages.

CLASS 131B<sup>3</sup>.

Int. Cl.-E21c 13/00.

POINT ATTACK BIT.

*Applicant & Inventor* : GERALD WAYNE ELDERS, OF 38 YAKASHAHA ESTATES, PRESCOTT, ARIZONA 86301 U.S.A.

Application No. 311/Del/77 filed October 12, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims.

A point-attack bit for removing material from a mine face, comprising an elongate shank, and a head integral and coaxial with the shank, the head including a plurality of peripherally spaced, laterally projecting vanes extending generally longitudinally of the bit, each vane being substantially triangular with a narrow leading end and a wider trailing end, and having relatively diverging sides that extend from the leading end to the trailing end, and contact with material being mined to effect a positive turning of the bit upon picking of the mine face.

Comp. Specn. 12 Pages.

CLASS 172D<sub>1</sub>.

Int. Cl.-D01 h 7/52.

DEVICE FOR SPINNING AND TWISTING TO BE APPLIED TO THE RING-SUPPORTING CARRIAGE OR TWISTING FRAME.

*Applicant* : F. LLI MARZOLI & C.S.P.A., OF PALAZZOLO SULL OGGLIO (BRESCIA), ITALY.

*Inventor* : ANGELO MARZOLI.

Application No. 254/DEL/78 filed April 7, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

7 Claims.

A device for spinning and twisting to be applied to the ring-supporting carriage of spinning or twisting frames, comprising an annular stator body and an annular rotor body rotatably coupled to the stator rolling members being inserted therebetween in confrontingly mounted throats formed through both the stator and the rotor bodies and retained spaced apart circumferentially from each other by an annular cage, and braking means between the stator body and the rotor body, characterized in that the stator body has beneath the annular cage an annular bracket providing a sliding plane and in that the rolling members are loosely inserted in the respective seats of the annular cage, each of said seats having, in the direction of motion of the cage, a front side edge at least the top portion of which is inclined in a direction opposite to the direction of motion and having an abutment land beneath said sloping portion, the distance between the center of the throats which receive the rolling members and the sliding plane of said annular bracket being larger than the distance between the lower end of said sloping top portion and the bottom edge of the annular cage, and shorter than the distance between the top end of said sloping top portion and the lower edge of the annular cage.

Comp. Specn. 11 Pages.

Drg. 1 Sheet.

CLASS 187H.

147874.

Int. Cl.-G01r 29/18.

DEVICE FOR PROVIDING PHASE SYNCHRONISM OF A TRANSIT STATION IN A DIGITAL TELECOMMUNICATION NETWORK.

*Applicant* : TELEFONAKTIEBOLAGET I. M. ERICSSON, OF S-126 25 STOCKHOLM SWEDEN.

*Inventors* : WALTER GHISLER, ALEKSANDER MARLEV AND JOHN OLOF ANAS.

Application No. 452/Cal/77 filed March 26, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

Device for providing phase synchronism of a transit station in a digital telecommunication network, comprising within a phase-locked loop a voltage-controlled oscillator that has an output arranged to supply a station clock signal and a control input capable of being actuated upon by line clock signals pertaining to a plurality of incoming lines from other transit stations in the telecommunication network and a phase comparator that is arranged to compare the phase of the station clock signal with the phases of the line clock signals and has an output connected to the control input of the voltage-controlled oscillator via a loop filter, characterized in that the loop filter comprises a memory means which has an address input and a read output and is arranged to store selected weighting coefficients for the line clock signals, an address counter means which has an input connected to the output of the voltage-controlled oscillator and an output arranged for a cyclical read out of address words allotted to said incoming lines and connected to the address input of the memory means, and a multiplier means which has a first input connected to the output of the phase comparator, a second input connected to the read output of the memory means and an output connected to the control input of the voltage-controlled oscillator via an averaging means, a time multiplexor stage being connected between said incoming lines and the phase comparator and having an address input connected to the output of the address counter means.

Comp. Specn. 10 Pages.

Drg. 1 Sheet.

CLASS 63B.

147875.

Int. Cl.-H02k 1/00.

A METHOD OF MANUFACTURING A STATOR ASSEMBLY.

*Applicant* : LUCAS INDUSTRIES LIMITED, OF GREAT KING STREET, BIRMINGHAM, B 19 2XF, ENGLAND.

*Inventor* : KEITH JAMES WILLIAM BEECH.

Application No. 803/Cal/77 filed May 27, 1977.

Convention date May 28, 1976/(22379/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A method of manufacturing a stator assembly of the kind specified comprising the steps of, axially inserting a reduced diameter sinusoidal field winding into the yoke with the axial portions of the winding aligned with the spaces between respective pairs of poles, expanding the winding radially to engage the axial portions of the winding between their respective pairs of poles, and, securing the expanded winding in position in the yoke by subjecting the winding to a compressive loading in an axial direction while holding the winding against radially inward collapse, the magnitude of the axial loading applied to the winding being sufficient to cause initial elastic deformation of the winding into contact with the poles and the inner surface of the yoke and subsequent plastic deformation of the winding whereby, upon release of the axial loading the winding remains in its deformed configuration engaging the poles and the inner surface of the yoke and so gripping the poles and the yoke so as to retain itself in position in the yoke.

Comp. Specn. 12 Pages.

Drg. 3 Sheets.

CLASS 129J.  
Int. Cl.-B21b 13/00.

147876.

## ROLLING MILL STAND.

*Applicant* : LOEWY ROBERTSON ENGINEERING COMPANY LIMITED, OF WALLISDOWN ROAD, POOLE, DORSET, ENGLAND.

*Inventor* : EDWIN SIMMONDS.

Application No. 1567/Cal/77 filed November 1, 1977.

Convention date November 2, 1976/(45514/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A rolling mill stand comprising a pair of spaced housings having windows therein to receive bearing chocks of rolling mill rolls; roll gap adjustment means carried by each housing to act between the top of the housing and the uppermost roll; sledge means movable between an inoperative position outside the housings and an operative position at the bottom of the windows, the sledge means being in the operative position during rolling; a pair of trays for carrying packers to be disposed operatively between the bottom of each window and the lowermost of the rolls; upwardly acting resilient means on the sledge for supporting each tray, those resilient means being located in each window when the sledge is in operative position and lifting each tray away from the bottom of the associated window unless each tray is forced down by the rolls into contact with the bottom of the associated window and means for lifting the rolls sufficiently to permit movement of the sledge means between the operative and inoperative position with the trays lifted by the resilient means.

Comp. Specn. 12 Pages.

Drg. 2 Sheets.

Int. CLASS 5 D.

147877.

Int. Cl.-E01c 19/23.

## COMPACTING APPARATUS FOR ROAD SURFACING MATERIAL.

*Applicant* : ALBARET S.A., OF 60290 RANTIGNY (OISE), FRANCE.

*Inventors* : FRANCOIS DEGRAEVE, RENE DIVAY AND JEAN-PIERRE LECOEUR.

Application No. 4/Del/78 filed January 3, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

15 Claims.

Apparatus for compacting or consolidating a strip of road surfacing material of the type comprising a self-propelled compacting machine, a guide vehicle having a set of drive wheels and displaceable along a strip of surfacing material to be compacted or consolidated, means associating said compacting machine with said guide vehicle for guiding said compacting machine for orbital movement about said guide vehicle; said guiding vehicle having a driving shaft and transmission means for transmitting torque from said driving shaft to said drive wheels of said guide vehicle; and means for driving said driving shaft being part of the assembly comprised of said compacting machine and said guide vehicle, and wherein apart from said means associating said guide vehicle with said compacting machine said guide vehicle is completely self-contained.

Comp. Specn. 19 Pages.

Drg. 3 Sheets.

CLASS 172D.

147878.

Int. Cl.-D01h 7/52.

## SPINNING AND TWISTING DEVICE.

*Applicant* : FRATELLI MARZOLI & C. S.P.A., OF PAIAZZOLO S. OGLIO, BRESCIA, ITALY.

*Inventor* : GIORGIO ADOLFO GRANDI.

Application No. 770/Cal/77 filed May 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta. 397

8 Claims.

A spinning and twisting device for fitting to the ring support carriage of ring spinners as a replacement for the ring slider device, comprising an annular stator member, an annular rotor member rotatably coupled to said stator internally in a manner axially aligned therewith and with the relative spindle of said machine, and provided with a passage for the thread being worked, which rotates it, and braking means disposed between the stator members and rotor member.

Comp. Specn. 9 Pages.

Drg. 1 Sheet.

CLASS 69-0.

147879.

Int. Cl.-H02b 11/00, 13/00.

## ELECTRICAL SWITCHGEAR.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

*Inventors* : GEORGE STREICH AND GUNTER GNAHN.

Application No. 774/Cal/77 filed May 24, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

An electrical switchgear having a switching member moveable between an open position and a closed position and locking means for locking the switching member in its closed position, said locking means comprising a pivotable member which in a locking position bears by means of rollers against a surface of the switchgear and serves to hold the switching member in its closed position, the pivotable member being pivotable away from its locking position to allow the switching member to move to its open position.

Comp. Specn. 11 Pages.

Drg. 3 Sheets.

CLASS 70C.

147880.

Int. Cl.-C23b 5/00.

## A PROCESS FOR CHROMIUM PLATING A SURFACE OF ANY OBJECT.

*Applicant* : INCO EUROPE LIMITED, OF THAMES HOUSE, MILLBANK, LONDON, S.W.1., ENGLAND.

*Inventor* : DANIEL LUCH.

Application No. 1513/Cal/77 filed October 14, 1977.

Addition to No. 142485.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims. No Drawings.

A process for chromium plating a surface of any object composed of a composition having a volume resistivity of less than 1000 ohm-cm and comprising a carbon black, elemental sulphur or a sulphur-containing compound such as herein described, and an organic polymer such as herein described that can chemically bond with elemental sulphur or at least a part of the sulphur of the sulphur-containing compound, in which process the surface to be chromium plated is electroplated with a coating of a metal of Group VIII of the Periodic Table or an alloy thereof as herein described, this coating is covered with a metallic barrier layer as herein described substantially impermeable to hydrogen at temperatures up to 100°C. and finally electro depositing of chromium on the surface of the object.

Comp. Specn. 29 Pages.

Drgs. Nil.

CLASS 69-I. &amp; 179F.

147881.

Int. Cl.-B 67d 5/00.

## SAFETY SWITCH ASSEMBLIES.

*Applicant* : TOTAL OIL GREAT BRITAIN LIMITED,

33 CAVENDISH SQUARE, LONDON, W1M 0JE,  
ENGLAND.

Inventor: BARRY SHACKCLOTH.

Application No. 1526/Cal/77 filed October 18, 1977.

Convention date October 22, 1976/(43956/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A safety switch assembly for use with equipment for filling a container, the safety switch assembly comprising a body portion housing a first electrical switch operative to respond to the location of the body portion on a container to be filled, and a sensing portion housing a second switch operative to respond to the level of contents in a container to be filled, wherein the first switch is so positioned on the body portion that location of the body portion on a rim of a peripheral wall defining a filler opening of a container to be filled is operative to cause engagement of the first switch with said peripheral wall to change the switch state of the first switch.

Comp. Specn. 13 Pages.

Drg. 2 Sheets

#### OPPOSITION PROCEEDINGS

An opposition has been entered by Mazda Manufacturing Company to the grant of a patent on application No. 147242 made by Jayantilal Bhogilal Shah.

#### PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undenoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy:—

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#### PATENTS SEALED

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143754 143768 143913 143944 143959 144305 145646 145684  
145693 146669 146703 146710 146810.

#### COMMERCIAL WORKING OF PATENTED INVENTIONS.

List No. IX

The following Patents in the field of Chemical Engineering are not being worked commercially in India as admitted by the patentees in the statement filed by them under Section 146(2) of the Patents Act, 1970, in respect of Calendar year 1978, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work commercially the said patents may contact the patentees for the grant of licences for the above purpose.

S.No.	Patent No.	Date	Name of Patentees	Title of the Invention.
1	2	3	4	5
1	142492	05—11—1975	TEXACO DEVELOPMENT CORPN.; 135, East 42nd Street, New York-10017, New York, U.S.A.	Process for producing gaseous mixtures comprising H <sub>2</sub> and CO.
2	142506	16—07—1975	BAVER AKTIENGESELLSCHAFT, Leverkusen, F.R.G.	Continuous solvent force polymerization of vinyl derivatives.
3	142507	18—08—1975	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. carol Van Bylandtlaan 30, The Hague, The Netherlands.	Process for the production of hydrogen, Carbon monoxide and light hydrocarbon containing gases.
4	142509	01—10—1975	Do.	Improvements in high pressure gasification.
5	142514	27—08—1976	CHIEF CONTROLLER R & D (GENERAL OF R&D) Organisation, Ministry of Defence, Government of India, New Delhi.	Process for preparing re-coil fluid composition for preventing corrosion.
6	142517	10—09—1975	NUCHEM PLASTICS LTD., 20/6, Milestone, Mathura Road, Faridabad Haryana-121002, India.	A process for producing a shaped articles comprising moulding urea and formaldehyde, or melamine formaldehyde moulding powders.
7	142520	26—10—1973	DEUTSCHE COLD UND SIBER S.V.R. OF 9 Weiss Frauenstrasse, Frankfurt (Main) F.R.G.	Method of preparing textured vegetable protein.
8	142539	07—08—1975	CIBA GIEGY OF INDIA LTD., Aarey Road, Goregaon (East), Bombay-62, M.S. (India)	Manufacture of polycyclic compounds.
9	142549	02—07—1974	SOLVAY AND CIE 33, rue du Prince Albert, B-1050, Brussels, Belgium.	Process of manufacture of polyiactones from d-β di-chloropropionic acid or its derivatives.

1	2	3	4	5
10	142550	16—07—1974	WESTINGHOUSE ELECTRIC CORPN, Westinghouse Building, Gateway Center, Pittsburgh, Pennsylvania, U.S.A.	Composition for forming thermo-particulate coating which protects electrical apparatus.
11	142571	10—07—1975	C.S.I.R. Rafi Marg, New Delhi, India.	Improvements in producing soluble granules used in making cellular metal.
12	142595	20—11—1974	METALLGESSELLSCHAFT A.G., 16, Frankfurt, A.M., Reuterweg, 14, West Germany.	Process of simultaneously producing methanol and methane.
13	142608	24—09—1974	BAYER AKTIENGESELLSCHAFT, Leverkusen, F.R.G.	Process for the preparation of cationic dye-stuffs.
14	142610	12—12—1974	NORTON COMPANY 1, New Bord Street, Worcester, State of Massachusetts, U.S.A.	Process for the preparation of zirconia, alumina abrasive grits.
15	142611	15—01—1976	NUCHEM PLASTICS LIMITED, Faridabad Haryana, India.	Process for the preparation of Triomane.
16	142614	22—08—1975	ELI LILLY AND CO., 307, East Mecarty Street, City of Indianapolis, Indiana, U.S.A.	A process for preparing 3-phenyl-5-substituted-4 (1H) Pyridines (Thiones).
17	142619	09—04—1975	DR. C. OTTO AND COMP., GMBH Christstrasse 9, Postfach 1849/1850, 463, Bochum, West Germany.	Plant for the chemophysical surface treatment of wire coil.
18	142629	01—11—1974	SUN VENTURERS INC., 240, Radnor Chester Road, St. Davids, Pennsylvania, 19087, U.S.A.	Process for the preparation of block copolymer of poly (dioxo-amide) and polyamide.
19	142630	01—11—1974	Do.	Process for the preparation of block copolymer of poly (dioxo-amide) and polyamide.
20	142631	01—11—1974	Do.	A Process for the preparation of block copolymer and poly (dioxo-amide) and polyamide.
21	142632	01—11—1974	Do.	Process for the preparation of block copolymer of poly (dioxo-arylamide) and polyamide.
22	142634	14—01—1975	CINCINNATI MILACRON CHEMICALS INC., Reading State of Ohio, U.S.A.	Stabilizer composition containing dimethyltin esters.
23	142640	12—01—1976	JOHNSON & JOHNSON, 501, George Street, New Brunswick, New Jersey, U.S.A.	A process for preparing a gel formulation of tretinoin for topical application.
24	142657	30—10—1975	UNIVERSAL OIL PRODUCTS INC., 10UOP Plaza- Algon-quin and Mt. Prospect Road, Des Plains, Illinois, U.S.A.	Improvements in a fluidised catalytic cracking process.
25	142660	24—09—1974	BAYER A.G., Leverkusen, West Germany.	Process for dying and printing.
26	142672	13—01—1975	NITTO BOSEKI CO. LTD., 1, Aza Higashi, Gonomia, Fukushima-shi, Japan.	Method and apparatus for the manufacture of glass fibres.
27	142673	24—02—1975	HOECHSTA. G., 6230, Frankfurt/Main 80, F.R.G.	Process for the manufacture of a catalyst.
28	142674	24—02—1975	Do.	Do.
29	142675	24—02—1975	Do.	Do.
30	142677	01—04—1975	GULF RESEARCH AND DEVELOPMENT CO., Gulf Building, 7th Avenue and Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Liquification of carbonaceous materials.
31	142679	19—07—1975	WIEGAND KARLESRUHE GMBH, Einsteinstrasse 9—15 Ettlinger 7505, West Germany.	Gas scrubbing apparatus.
32	142682	16—06—1976	CHIEF CONTROLLER R & D, Ministry of Defence, Government of India, New Delhi, India.	Preparation of water repellent-cum-preserved fluid.
33	142683	22—06—1976	BAYER A.G. Leverkusen, West Germany.	Production of organic sulphides and disulphides.
34	142688	03—08—1974	MATHER AND PLATT LTD., Park Works, Manchester M10, 6BA, England.	Improvements in or relating to the treatment of textile material.
35	142694	16—01—1975	CINCINNATI MILACRON CHEMICALS INC., Reading State of Ohio, U.S.A.	Process for preparing an organotin halide mercaptide.
36	142696	08—01—1976	C.S.I.R., Rafi Marg, New Delhi, India.	Preparation of pure cholesterol from Buffalo and goat Spinal cord.

1	2	3	4	5
37	142702	20—08—1975	SAGAMI CHEMICAL RESEARCH CENTER, Marunouchi, 1-4-5, 100, Japan.	Preparation of esters of dihalovinyl-cyclo propane carboxylic acids.
38	142711	09—04—1974	IMPERIAL CHEMICAL INDUSTRIES LTD., Imperial Chemical House, Millbank London, England.	Method of preparing a hard polymerized resin composition.
39	142714	01—03—1975	AMERICAN HOME PRODUCTS CORPN., 685, Third Avenue, New York, New York-10017, U.S.A.	Preparation of benzo bicyclo-alkane amines.
40	142716	03—12—1974	HOECHST A.G., Frankfurt/Main, 80, F.R.G.	Process for the preparation of new hydroxy pyridine.
41	142722	18—04—1974	GLOBE UNION INC., 5757, North Green Bay, Avenue, Mill威ambi, Wisconsin, 53201, U.S.A.	A cement resistor composition.
42	142723	22—06—1974	THE BAUER BROS., CO., 1706, Sheridan Avenue, Springfield, Ohio, U.S.A.	An apparatus for separating and classifying the contents of the flowing slurry.
43	142726	27—07—1974	BAYER A.G., Leverkusen, West Germany.	Pulveulent or concentrated solutions of water soluble dyestuffs and the process of preparing it.
44	142727	22—08—1974	FARBWERK HOECHST A.G., 45, Bruebingstrasse, Frankfurt/Main F.R.G.	Preparation of new water soluble yellow reactive dyes.
45	142730	31—10—1974	SVENSKA RAYON A.B., 660, 50 Valborg, Sweden.	Method of recovering zinc from zinco ferous water solution.
46	142735	17—12—1975	MCNEIL LABORATORIES INC., Camp Hill Road, Fort, Washington, Pennsylvania, U.S.A.	Process for preparing substituted thio-sulfinyl and sulfonyl-indoles.
47	142738	11—06—1975	HINDUSTAN LEVER LTD., Hindustan Lever House, 165/166 Backbay Reclamation, Bombay-20, India.	Cosmetic composition.
48	142751	04—05—1976	ANIL STEEL AND INDUSTRIES LTD., 27-A, Camac Street, Calcutta-700016, West Bengal, India.	High Carbon steel products of low thickness.
49	142753	31—03—1975	DR. C. OTTO & COMP. GMBH, Christstrasse 9, Postfach, Bochum, West Germany.	Gasification of solid fuels.
50	142761	07—03—1975	ELI LILLY AND CO., Indianapolis, Indiana, U.S.A.	Preparation of 1-acyl-4-(0-halophenyl)-3-thio-semicarbazides.
51	142762	07—03—1975	Do.	Preparation of 4(0-halophenyl) 1, 2, 4, Triazole-3-thiol.
52	142763	17—09—1975	C.S.I.R., New Delhi, India.	A process for the recovery of vanadium as sodium vanadate from bauxite residue (Red mud).
53	142775	29—07—1975	Do.	Recovery of tellurium from copper refinery slimes.
54	142788	19—12—1974	BAYER A.G., Leverkusen, F.R.G.	Preparation of azo dyestuffs containing nitrile groups.
55	142791	14—05—1975	DYANACHEM CORPORATION, of Santa Ana, California, U.S.A.	Process for protecting part or all of a substrates.
56	142792	02—09—1975	BAYER A.G., Leverkusen, F.R.G.	Preparation of copper phthalocyanine by the phthalic anhydride.
57	142812	25—11—1975	NUCHEM PLASTICS LTD., Mathura Road, Faridabad, Haryana, India.	Preparation of phenyl hydrozine.
58	142815	18—09—1975	UOP INC., Algenquin and Mtr. Prospect Roads, Desplaines, Illinois, U.S.A.	A treating chamber used for coating and impregnating of catalyst support member.
59	142816	06—11—1975	BAYER A.G., Leverkusen, F.R.G.	Process for dyeing or printing blended fabrics.
60	142825	08—09—1974	HOECHST A.G., Frankfurt/Main, F.R.G.	Preparation of water soluble monoazo compounds.
61	142835	15—09—1975	UCB, S.A., 4, Chausee de charleroi, Saint-Gilles-Bruxelles, Belgium.	A modified generated cellulose film with process of production.
62	142836	09—10—1975	KURARAY CO. LTD., 1621, Sakazh, Kurashi Ki City, Japan.	Process for the production of substituted cyclo-propane carboxylic esters.
63	142846	22—04—1975	SNAMPROGETTI S. p. A., 16 Corso Venezia, Milan, Italy.	Process for producing an improved catalytic material.

1	2	3	4	5
64	142853	03—09—1975	UOP INC., Ten Uop Plaza -Algenquin and Mt. Prospect Road, Des Plaines, U.S.A.	A process for the Dehydrogenation of hydro- carbon.
65	142857	09—10—1975	IMPERIAL CHEMICAL INDUSTRIES LTD., Millbank, London, England.	Nitro-paraffin explosive composition.
66	142880	27—09—1974	JAMES MICHAEL HAZAR 4776, North Central Avenue, Phoenix, Arizona -85012, U.S.A.	Continuous dyeing of cellulose fibre with reactive dyestuffs.
67	142889	23—04—1976	THE FERTILIZER (PLANNING AND DEVELOPMENT) INDIA LTD., Sindri (Dhanbad), Bihar, India.	Process for the preparation of Sodium tri- phosphate from trisodium phosphate.
68	142891	18—08—1976	ETHICON INC., Sommerville, New Jersey, U.S.A.	Surgical adhesive tape.
69	142895	08—11—1974	C.S.I.R., New Delhi, India.	Process for the manufacture of ortho-toluidine from orthonitrotoluene.
70	142896	09—10—1976	KOMMAND ITGESELLSCHAFT SCHWA- RZHAUPT, Sachsenring, 37-47, 5 Kolin-1, West Germany.	Method for preparing a composition for the conjoint determination of the Isoenzymes of lactate dehydrogenase.
71	142923	15—10—1975	C.S.I.R., New Delhi, India.	Process for printing/coating of rusted steel structure.
72	142932	15—12—1975	BAYER A.G., Leverkusen, West Germany.	A process for the manufacture of sulphanamide.
73	142935	28—04—1976	DR. C. OTTO AND COMP. GmBH, Post Fach, Bochum West Germany.	Tubular reactor for performing endothermal gas reactions.
74	142936	07—06—1976	Do.	A device for gasifying fuels in fine grains.
75	142944	10—09—1975	NUCHEM PLASTICS LTD., Mathura Road, Faridabad, Haryana, India.	Process for preparation of used formaldehyde or melamine formaldehyde moulding powders.
76	142958	09—02—1976	C.S.I.R., New Delhi, India.	Improved process for the production of fish protein concentrate from fresh marine fish.
77	142987	15—11—1975	C.S.I.R., New Delhi, India.	A Process for the synthesis of N-substituted-3 phenyl-2-3-4, 5, tetrahydro-1H-1 Benzazepins.
78	143026	03—01—1976	C.S.I.R., New Delhi, India.	Preparation of para-tertiary butyl phenol.
79	143029	28—11—1974	HOOKER CHEMICALS AND PLASTICS CORPN., Niagara Falls, New York, U.S.A.	Bulk Polymerization of vinyl halide polymers and copolymers incorporating stabilizer therefor.
80	143034	08—04—1976	SOLVAY AND CIE., 33, rue du Prince Albert, B—1050 Brussels, Belgium.	Process for the polymerization of olefins.
81	143052	13—06—1974	RHONE POULENE S.A., 22 Avenue Montaigne Paris 8E, France.	Catalytic epoxidation of olefinic compounds.
82	143057	16—09—1974	BAYER A.G., Leverkusen, F.R.G.,	Process for isolating easily soluble basic oxazine dyestuffs.
83	143070	12—05—1975	USS ENGINEERS AND CONSULTANTS INC., 600, Grant street, Pittsburgh, Pennsylvania.	Method and apparatus for refining metal.
84	143108	02—09—1974	UNILEVER LTD., Unilever House, Blackfriars, London E.C. 4, England.	Method for obtaining tea extract.
85	143111	04—12—1974	HOECHST A.G., 6230, Frankfurt/Main, 80, F.R.G.	Process for wetting a textile material.
86	143112	25—04—1975	Do.	Process for preparing phthalocyanine pigments of the $\alpha$ modification.
87	143116	17—10—1975	ISHIHARA SANGYO KAISHA LTD., No. 11-1, Edobori 1-chome, Nishi-ku, Osaka, Japan.	Preparation of $\alpha$ -substituted $\alpha$ -pyridyzoxy] phenoxy/alkane carboxylic acid and its derivatives.
88	143122	17—02—1976	FRANCE-LUZERNE, 11, rue du madrid, 75008, Paris, France.	Treatment of vegetable matter.
89	143125	26—09—1974	C.S.I.R., New Delhi, India.	Synthesis of 8-azo-9-exo-15 hydroxy and 11,15 hydroxy-prostanoic acid.
90	143126	17—10—1974	HOECHST A.G., Frnkfurt/Main, F.R.G.	Preparing 1-aminobenzene-5- $\beta$ -sulftoethyl- sulphone-2, 4 Disulfonic acid, The 5-vinyl sulphone compound and the alkali salts thereof.

1	2	3	4	5
91	143128	07—05—1975	UOP INC., Des Plaines, Illinois, U.S.A.	Hydro carbon conversion process.
92	143130	13—11—1975	UNITED TECHNOLOGIES CORPORATION, Hartford, Connecticut, U.S.A.	Method for catalysing a fuel collectorde.
93	143135	18—09—1974	THE BOBTEX CORPORATION LTD., 1435, St. Alexander Street, Montreal, Quebec, Canada.	Manufacture of composite yarn products.
94	143139	31—03—1975	RCA CORPORATION, 30, Rockfeller Plaza, New York, 10020 New York, U.S.A.	Method of depositing epitaxial layers of silicon on a substrate.
95	143152	18—04—1975	HOLANDSE SIGNAALAPPARATEN B.V., Zwidelizbe Havenweg 40, Hengelo (O), The Netherlands.	Manufacture of twistless or substantially twistless yarn.
96	143155	15—01—1975	BAYER A.G., Leverkusen, F.R.G.	Preparation of hydrogenation, catalyst.
97	143156	11—02—1976	F.L. Smith & Co., A/S, 77, Vigerslev Alle, DK-2500, Copenhagen-Valby, Denmark.	Kiln Plant and a method of preheating and calcining of raw materials.
98	143159	15—01—1976	BAYER A.G., Leverkusen, F.R.G.	Manufacture of dicyclohexylamine.
99	143176	21—08—1974	DR. C. OTTO AND COMP. GMBH Bochum, West Germany.	Apparatus for Processing the gas-main flushing liquor yielded in coke ovens.
100	143177	18—12—1974	OWENS CORNING FIBERGLAAS CORPN, Toledo, Ohio, U.S.A.	Apparatus and method of forming glass [fibres].
101	143179	29—03—1975	DR. C. OTTO & COMP. GMBH, Bochum, F.R.G.	A device for continuously withdrawing solids which have formed a sediment in a liquid.
102	143182	22—06—1976	CHIEF CONTROLLER R & D, Ministry of Defence Government of India, New Delhi, India.	Composition for reducing charge on the surface of polystyrene foam.
103	143191	17—10—1974	HOECHST A.G., Frankfurt/Main, F.R.G.	Preparation of New water soluble azo dyes.
104	143192	22—10—1974	SHEEL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. The Hague, the Netherlands.	Preparation of silver catalyst for the production of ethylene oxide.
105	143197	20—03—1975	HOECHST A.G., Frankfurt, Main, F.R.G.	Preparing of coating composition.
106	143199	08—04—1975	BAYER A.G., Leverkusen, F.R.G.	Moulding composition.
107	143202	04—12—1975	INDIAN DRUGS AND PHARMACEUTICALS LTD., N-12 South Extension Part J, Ring Road New Delhi, India.	Manufacture of thiothiamine and thiamine chloride-hydrochloride (Vitamin B <sub>1</sub> ).
108	143205	27—01—1977	LUDWIG TAPROGGE, Reinigung Sandlagen, Fur Rohren, Wärmeanstaucher, Wacholderstrasse, 7,4000, Dussel Dorf, 34, F.R.G.	A device for the separation of solids from a liquid stream.
109	143212	18—06—1975	OCE-VAN DER GRINTEN N.V., Venlo, Holland.	Liquid application on a sheet like material.
110	143216	24—02—1976	C.S.I.R. New Delhi, India.	Electrothermal distillation of metals and alloys.
111	143222	31—10—1972	D.E.G.U.SSA, 9, Weissfrauenstrasse, Frankfurt, F.R.G.	Gas phase catalytic process for cyanogen chloride from chlorine and hydrogen cyanide.
112	143224	03—11—1974	FMC CORPORATION, 633, Third Avenue, Newyork, N.Y.U.S.A.	Process for regenerating noble metal hydrogenation catalyst.
113	143228	31—01—1975	THE CARBORUNDUM COMPANY, 1625, Buffalo Avenue, Niagara falls, Niagara County, N.Y., U.S.A.	Manufacture of high modulus oxybenzyl copolyester fibres.
114	143232	09—04—1975	BAYER A.G., Leverkusen, F.R.G.	Thermoplastic moulding composition.
115	143236	28—09—1976	UOP INC., Ten UOP Plaza-Algonquin and Mt. Prospect Road, Des Plaines, Illinois, U.S.A.	Hydrogen fluoride alkylation process.
116	143244	08—08—1975	THYSSEN PURFER GMBH., 4, Dusseldorf, Kaiserswerther Strasse-115, F.R.G.	Method of reduction of iron ores particularly in the form of pellets and on installation for carrying the method.

1	2	3	4	5
117	143246	26—06—1976	JOHNSON AND JOHNSON, 501, George Street, New Brunswick, New Jersey, U.S.A.	Process for producing adhesive types from thermoplastic elastomeric materials.
118	143248	17—09—1976	A.A. CONNEL P.O. Box. 23., Highway 212, Stillwater, Minnesota, U.S.A.	Gas anesthesia device.
119	143258	12—10—1976	JOHNSON AND JOHNSON New Brunswick, New Jersey, U.S.A.	A conditioning and cleaning shampoo composition non irritating to eyes.
120	143269	23—08—1975	KUREHA KAGAKU KOGYO K.K., 1-8, Horidome-Cho, Nohonbashi, Chuo-ku, Tokyo, Japan.	Caustic alkali producing multiple diaphragm type electrolytic cell admitting of easy assembly.
121	143274	29—03—1975	ANIC S.P.A., Vla Mariano, Stabile, 216, Palermo, Italy.	Process for the synthesis of substituted indolenins.

**PATENTS DEEMED TO BE ENDORSED WITH  
THE WORDS "LICENCES OF RIGHT"**

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

No.	Title of the invention
139424 (24.05.74)	Method for the uniform electroplating of sheet and strip.
139496 (22.04.74)	Preparation of esters of thiocarbamic acids.
139687 (16.07.74)	Process and apparatus for enzymatically adjusting the proportions of a substrate in solution.
139776 (20.11.75)	A method of preparing poly [2-hydroxy-ethylene (dimethyl amino) ethylene dimethylene in methylene dichloride] for inhibiting the growth of algae.
139841 (13.04.73)	Process for extracting metal values from spent hydrodesulfurisation catalyst.
139845 (23.10.73)	Process for the manufacture of 2-aryl-vic-triazoles.
139868 (04.04.74)	Process for the production of an extract useful in treatment of bronchial asthma.
139869 (04.04.74)	A process for the production of a benzofuran derivatives from kojic acid and catchol.
139876 (02.02.74)	Process for the preparation of carboxy-thiouridobenzene derivative.
139879 (13.08.74)	Process for the preparation of indazole-3-carboxylic acid hydrazide.
139949 (17.06.74)	Preparation of unsymmetrical dimethyl hydrazine (UDMH) by electrolytic reduction of N-nitrosodimethylamine (NDMA).
139961 (23.10.72)	Method for the extraction of metals from their salt solution by adsorption.

**RENEWAL FEES PAID**

100583	100685	100803	101133	101237	104649	104918	105897
106036	106407	106417	107007	107040	107194	107214	111198
111338	111341	111373	111377	111523	111524	111573	111596
111612	111618	111658	111674	111698	112057	112133	112142
112225	112446	116597	116621	116636	116713	116718	116994
117039	117173	117219	121924	121960	121962	122109	122170
122255	122424	122557	122679	122872	122907	122919	122947
122979	123038	123146	124161	127358	127380	127399	127512
127513	127672	127752	127753	127904	127981	128054	128481
128508	131501	131844	131874	131875	131876	131968	131995
132031	132086	132111	132241	132279	132283	132295	132306
132437	132542	132571	132798	132926	132939	135482	135737
135937	136024	136072	136349	136537	136612	136614	136745

136746 136804 137032 137180 137196 137849 138036 138155  
138659 138752 138974 139094 139179 139206 139423 139571  
139855 140054 140070 140450 140560 140572 140604 140623  
140633 140665 141543 141763 142046 142195 142226 142253  
142358 142396 142507 142626 142982 143028 143046 143147  
143306 143556 144110 144467 144617 144645 144793 144935  
144979 145174 145289 145294 145616 145689 145993 146068  
146191 146285 146418 146662 146748.

**CESSATION OF PATENTS**

140613 140614 140617 140619 140625 140637 140671 140673  
140674 140678 140690 140697 140704 140712 140733 140735  
140742 140751 140757 140766 140767 140773 140774 140794  
140799 140806 140817 140829 140832 140844 140846 140856  
140860 140864 140870 140872 140882 140885 140892 140895  
140908 140909 140921 140933 140937 140941 140954 140965  
140970 140972 140977 140983 140994 141043 141044 141048  
141049 141059 141061 141067 141076 141079 141080 141085  
141086 141088 141092 141118 141124 141131 141132 141138  
141149.

**RESTORATION PROCEEDINGS**

**(1)**

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 121340 granted to Bhaskar Kashinath Thakoor for an invention relating to "an improved wheel for Velocipede Vehicle."

The patent ceased on the 15th May, 1979 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 15th March, 1980.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 26th September 1980 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

**(2)**

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 121341 granted to Bhaskar Kashinath Thakoor for an invention relating to "improvements made in or relating to tricycle."

The patent ceased on the 15th May, 1979 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 15th March, 1980.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 26th September 1980 under Rule 69 of the Patents Rules, 1972.

A written statement in triplicate setting out nature of the Opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 143150 granted to Macneill & Barry Limited for an invention relating to "an electrostatic photocopying machine".

The Patent ceased on the 26th September, 1978 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 24th February, 1979.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-17 on or before the 26th September 1980 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out nature of the Opponent's interest the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

Class 1. No. 148697. Vijay Steel & Metal Works, 98, Kamla Market, New Delhi, an Indian Proprietorship Concern. "Air Cooler". July 27, 1979.

Class 4. No. 149108. The Mahalakshmi Glass Works Pvt. Ltd., a private limited company of Dr. E. Moses Road, Jacob Circle, Bombay-400011, Maharashtra, India. "Bottle". December 21, 1979.

Class 8. No. 148959. Mahajan International, a division of Panipat Foods Ltd., G.T. Road, Panipat, Haryana, India, an Indian Company. "Rugs". November 2, 1979.

Class 10. No. 149241. Bata India Limited of 30, Shakespeare Sarani in the town of Calcutta, West

Bengal. "a sole of the footwear". February 1, 1980.

#### EXTENSION OF COPYRIGHT FOR THE SECOND PERIOD OF FIVE YEARS

Nos. 141273, 141274, 142470, 142748, 143329, 143330, 143369, 143371, 143471, 143472, 143473, 143474, 143641, 143742, 143743, 143643. Class 1

Nos. 142023, 142169, 142170, 142171, 142172, 142173, 142419, 142471, 142585, 143031, 143194, 143370, 143372, 143467, 143468, 143469, 143470, 143612, 143642, 143644, 143645, 143646. Class 3

No. 141819 Class 4

No. 142166 & 142167 Class 10

No. 143419 Class 13

#### EXTENSION OF COPYRIGHT FOR THE THIRD PERIOD OF FIVE YEARS

Nos. 135264, 135380, 137086, 137064. Class 1

Nos. 137289, 137290, 137335, 137353, 143031, 143194, Class 3

No. 137354. Class 6

Nos. 137291, 137292, 137336, 137337, 137351, 137439 and 137608 Class 10

#### CANCELLATION OF REGISTRATION OF DESIGNS

(SECTION-51A)

(1)

An application has been made by Hoechst Pharmaceuticals Limited for cancellation of the registration of Design No. 148298 in class 4 in the name of Galaxy Pharmaceuticals Private Ltd.

(2)

An application has been made by Hoechst Pharmaceuticals Limited for cancellation of the registration of Design No. 148299 in the name of Galaxy Pharmaceuticals Private Ltd.

S. VEDARAMAN  
Controller-General of Patents, Designs and Trade Marks.